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Water Supply Outlook For Nevada



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT of CONSERVATION
AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

AS OF
MAY 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



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ALL AVERAGES ARE FOR 1963-77 PERIOD

WATER SUPPLY OUTLOOK FOR NEVADA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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In Cooperation with

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WATER SUPPLY OUTLOOK FOR NEVADA

Streamflows for the period May 1 through July 31 are forecast at below average on most streams affecting Nevada's irrigated areas. During April, streamflows ranged from 70 to 100 percent of average.

Snow course measurements indicate the water content ranges from 83 percent in the Tahoe Basin to 115 percent in the Walker River Basin.

The water content of the snow is considerably below last year's measurements.

Reservoir storage has improved during the month and seven major reservoirs affecting irrigated agriculture now are 69 percent of average, compared to last year's 57 percent. Much of the storage is needed to supplement streamflows for adequate water supplies this summer.

East Slope of Sierra Nevada

May 1 snow course measurements indicate the water content in the snowpack is 83% of average in the Tahoe Basin, 88% in the Truckee Basin, 102% in the Carson Basin and 115% in the Walker Basin. Streamflows are forecast considerably below average for the Truckee River and near average for Carson and Walker Rivers. During April, streamflows in the West Walker River was average while the Truckee River at Farad, CA was only 70 percent.

Reservoir storage is excellent in Lahonton, Boca, Topaz and Bridgeport but is below average in Stampede. Lake Tahoe contains 164,000 acre-feet, only 32% of the 1963-77 average of 513,000 acre-feet. The reservoir storage will have to be used as a supplement because of the below average streamflows this summer.

Humboldt River

The high elevation snow courses still indicate slightly above average water contents; however, precipitation in the basin during the month was considerably below average. The streamflows are forecast for below average in all major streams in this Basin.

Streamflows on the Humboldt at Palisade were average for April.

Rye Patch Reservoir now contains 110,000 acre-feet, considerably above last year's 68,000 acre-feet.

As of April 25, 1979, the extent of snow cover on the Basin above Comus was 10 percent of the area. On April 19, 1978, 8 percent of the area was covered. This data was derived from satellite imagery.

Owyhee

Streamflows are forecast for above average in this Basin. Snow course measurements indicate a water content of 114% of average. Precipitation during the month was considerably below average while streamflows were near average.

Wild Horse Reservoir contain 44,000 acre-feet, nearly the same as last year.

Eastern Nevada

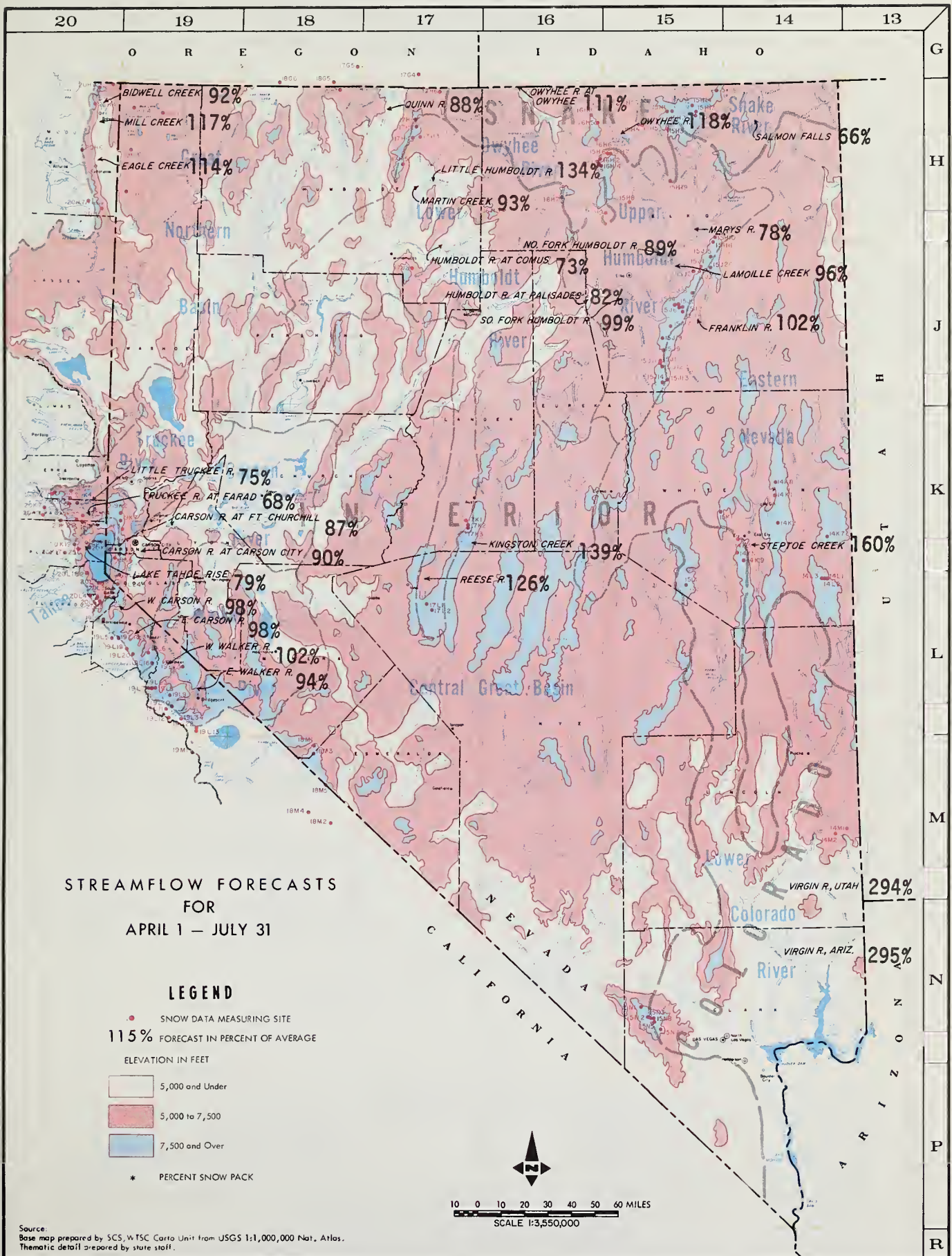
Only a limited number of snow courses were scheduled to be measured in this area. Measurements indicate above average water content, however, its below last year's at this time.

Northern Great Basin

Cedar Pass snow course had a substantial increase during the month and the forecasts are higher in the streams in this area.

Streamflows are forecast for near average this summer due to the snowpack increase this month.

PROSPECTIVE WATER SUPPLY FOR NEVADA



INDEX TO NEVADA SNOW COURSES

(By Basins)

Refer to the map on the preceeding page for Snow Course locations.

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
SNAKE RIVER BASIN					
SNAKE RIVER					
15H15MA	Bear Creek	31	46N	58E	7800
15H2	Fox Creek	33	46N	58E	6800
15H135A	Goat Creek	31	46N	60E	8800
15H15A	Hummingbird Springs	6	45N	60E	8945
15H20a	Merritt Mountain	10	46N	54E	7000
15H145A	Pole Creek Ranger Station	13	46N	59E	8330
15H18a	Red Point	15	47N	61E	7940
15H35A	76 Creek	6	44N	58E	7100
15H19a	5tag Mountain	32	41N	58E	7800

OWYHEE RIVER					
15H45M	Big Bend	30	45N	56E	6700
16H6a	Columbia Basin	31	44N	53E	6650
16H8a	Fawn Creek	2	45N	52E	7000
15H5	Gold Creek	32	45N	56E	6600
16H1M	Jack Creek, Lower	18	42N	53E	6800
16H2SAM	Jack Creek, Upper	9	42N	53E	7250
16H45	Jacks Peak	21	42N	53E	8420
16H55	Laurel Draw	20	45N	53E	6700
17G4a	Louse Canyon (OR)	27	405	44E	6440
15H9MP	Taylor Canyon	35	39N	53E	6200

INTERIOR

UPPER HUMBOLDT RIVER					
15J17a	American Beauty	32	31N	58E	7800
15J125A	Corral Canyon	27	28N	57E	8500
15J15M	Dorsey Basin	28	35N	60E	8100
15J3	Dry Creek	5	34N	60E	6500
15H7	Fry Canyon	31	43N	54E	6700
15J95M	Green Mountain	23	29N	57E	8000
15J10	Harrison Pass #1	9	28N	57E	6600
15J11	Harrison Pass #2	16	28N	57E	7400
15J4	Lamoille #1	15	32N	58E	7100
15J65	Lamoille #3	24	32N	58E	7700
15J8P	Lamoille #5	31	32N	59E	8700
15J20	Pole Canyon #2	6	34N	61E	7700
15J16a	Robinson Lake	23	33N	59E	9200
15H6MP	Rodeo Flat	36	43N	53E	6800
15J2	Ryan Ranch	1	34N	59E	5800
15J19	Smith Creek	26	30N	57E	7600
15H8	Tremewan Ranch	9	39N	55E	5700
15H10P	Trout Creek, Lower	28	37N	61E	6900
15H11A	Trout Creek, Upper	4	36N	61E	8500

LOWER HUMBOLDT RIVER					
17K1	Big Creek Campground	10	17N	43E	6600
17K2	Big Creek Mine	23	17N	43E	7600
17K3	Big Creek, Upper	26	17N	43E	7800
17H2	Buckskin, Lower	25	45N	39E	6700
17H1	Buckskin, Upper	11	45N	39E	8200
17L1	Corral, Lower	12	11N	40E	7500
17L2	Corral, Upper	20	11N	41E	8000
17J2	Golconda #2	22	35N	39E	6000
17H4	Granite Peak	22	44N	39E	7800
17H5	Lamance Creek	13	42N	38E	6000
17H3	Martin Creek	13	44N	39E	6700
16H3AP	Midas	18	39N	46E	7200
16H7a	Toe Jam	29	40N	50E	7700

EASTERN NEVADA					
14L1	Baker #1	29	13N	69E	7950
14L2	Baker #2	30	13N	69E	8950
14L3	Baker #3	25	13N	68E	9250
14K25	Berry Creek	26	17N	65E	9100
14K1	Sird Creek	34	19N	65E	7500
14K9a	Defiance Mines	9	14N	63E	9200
15J15	Hole-in-Mountain	6	35N	61E	7900
14K8	Kalamazoo Creek	34	20N	65E	7400
14K3	Murray Summit	25	16N	62E	7250
15K1	Robinson Summit	34	18N	61E	7600
14K7	Silver Creek #2	30	16N	69E	8000
14K5	Ward Mountain #2	25	15N	62E	8900

CENTRAL GREAT BASIN					
18M2	Campito Mountain (CA)	19	55	35E	10200
18M5a	Chiatovich Flat (CA)	32	25	34E	10500
15N2	Clark Canyon	8	19S	56E	9000
18M1	Montgomery Pass	4	1N	33E	7100
18H3a	Pinchot Creek (CA)	28	1N	33E	9300
18H4a	Plute Pass (CA)	33	4S	33E	11700
15N1	Trough Springs	23	18S	55E	8500

NORTHERN GREAT BASIN					
19H1a	Bald Mountain	17	45N	21E	6270
20H5	Barber Creek (CA)	23	39N	16E	6500
20H6	Cedar Pass (CA)	12	43N	14E	7100
18G6a	Denio Creek (OR)	14	41S	34E	6000
18H1	Olaster Peak	8	47N	34E	6500
20H3a	Oismal Swamp (CA)	31	48N	17E	7000
20H7	Eagle Peak (CA)	35	49N	15E	7200
19H3	49 Mountain	7	42N	19E	6000
19H2	Hays Canyon	1	39N	18E	6400
19H4a	Little Sally Mountain	8	45N	19E	6000
20H9	Mt. Bidwell (CA)	6	47N	16E	7200
20H10	North Star (CA)	13	47N	16E	6200
17G5a	Oregon Canyon (OR)	9	40S	40E	7240
17H6a	Quinn Ridge	9	47N	41E	6300
20H4	Reservation Creek (CA)	12	46N	15E	5900
18G5a	Trout Creek (OR)	10	41S	38E	7800

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
LAKE TAHOE					
20L65	Echo Peak (CA)	35	12N	17E	7800
20L5	Echo Summit (CA)	6	11N	18E	7450
20L105	Fallen Leaf (CA)	36	13N	17E	6300
19L2	Freel Bench (CA)	36	12N	18E	7300
19K6	Glenbrook #2	13	14N	18E	6900
19L3M5	Hagans Meadow (CA)	36	12N	18E	8000
19L245	Heavenly Valley (CA)	1	12N	18E	8850
20L4	Lake Lucille (CA)	28	12N	17E	8200
19K4M5	Marlette Lake	18	15N	19E	8000
20L3	Richardsons #2 (CA)	6	12N	18E	6500
20L1	Rubicon #1 (CA)	6	13N	17E	8100
20L2	Rubicon #2 (CA)	6	13N	17E	7500
20K16	Tahoe City (CA)	6	15N	17E	6250
20K26	Tahoe City Alt. (CA)	7	15N	17E	6300
20K275	Tahoe City Cross (CA)	1	15N	16E	6750
19L1	Upper Truckee (CA)	21	12N	18E	6400
20K25	Ward Creek (CA) #3	21	15N	16E	6750
20K17	Ward Creek #2 (CA)	21	15N	16E	7000

TRUCKEE RIVER

20K14	Boca #2 (CA)	28	18N	17E	5900
20K22	Brookway Summit (CA)	3	17N	16E	7100
20K21	Donner Park #2 (CA)	18	17N	16E	6000
20K10	Donner Summit (CA)	25	17N	14E	6900
20K7*	Forryce Lake (CA)	34	18N	13E	6500
20K8*	Furnace Flat (CA)	10	17N	13E	6700
20K4M5	Independence Camp (CA)	34	19N	15E	7000
20K35	Independence Creek (CA)	14	19N	15E	6500
20K55	Independence Lake (CA)	9	18N	15E	8450
19K3	Little Valley	17	16N	19E	6300
19K25	Mt. Rose	7	17N	19E	9000
19K7	Mt. Rose Ski Area	30	17N	19E	9000
20K6	Sage Hen Creek (CA)	7	18N	16E	6500
20K19	Squaw Valley #2 (CA)	6	15N	16E	7500
20K135	Truckee #2 (CA)	22	17N	16E	6400
20K2*	Webber Lake (CA)	29	19N	14E	7000
20K1*	Webber Peak (CA)	30	19N	14E	8000

CARSON RIVER

19L5	Blue Lakes (CA)	30	9N	19E	8000
19L4	Carson Pass, Upper (CA)	22	10N	18E	8600
19K5	Clear Creek	6	14N	19E	7300
19L19A	Ebbetts Pass (CA)	17	8N	20E	8700
19L16a	Fish Valley, Upper (CA)	1	7N	22E	8050
19L065	Poison Flat (CA)	25	8N	21E	7900
19L315	Wet Meadows #2 (CA)	26	9N	19E	8050
19L18A	Wet Meadows Lake (Cal.)	26	9N	19E	8100
19L20a	Wolf Creek (Cal.)	35	8N	20E	8000

WALKER RIVER

19L11	Buckeye Forks (CA)	20	4N	23E	8500
19L10	Buckeye Roughs (CA)	15	4N	23E	7900
19L12	Center Mountain (CA)	4	3N	23E	9400
19L8	Leavitt Meadows (CA)	4	5N	22E	7200
19L175A	Loddell Lake (CA)	20	7N	24E	9200
19L34	Sawmill Ridge (CA)	17	3N	24E	8750
19L7	Sonora Pass (CA)	1	5N	21E	8800
19L235	Sonora Pass Bridge (CA)	6	5N	22E	8800
19M1*	Tioja Pass (CA)	30	1N	25E	9900
19L13	Virginia Lakes (CA)	5	2N	25E	9500
19L22M5	Virginia Lakes Ridge (CA)	32	2N	25E	9200
19L9	Willow Flat (CA)	21	5N	23E	8250

COLORADO

LOWER COLORADO RIVER

15N5	Kyle Canyon	27	19S	56E	8200
15N3	Lee Canyon #2	9	19S	56E	9200
15N8	Lee Canyon #3	10	19S	56E	8500
14M1	Mathew Canyon	10	6S	70E	6000
14M2	Pine Canyon	23	6S	69E	6200
15N7	Rainbow Canyon #2	6	20S	57E	8100
15L1	White River #1	31	13N	59E	7400

LEGEND

NUMBERING SYSTEM (EXAMPLE)

19K4	Snow Course Only
19K45	Snow Course with SNOTEL
19K4M	Snow Course and Soil Moisture
19K4A	Snow Course and Aerial Marker
19K4P	Snow Course and Storage Precipitation Gage
19K4MA	Snow Course, Soil Moisture and Aerial Marker
19K4MP	Snow Course, Soil Moisture, and Precipitation Gage

Lower case letter "a" indicates no snow course, only an Aerial Marker.
SNOTEL has telemetered data for snow pillow, precipitation gage and temperature.

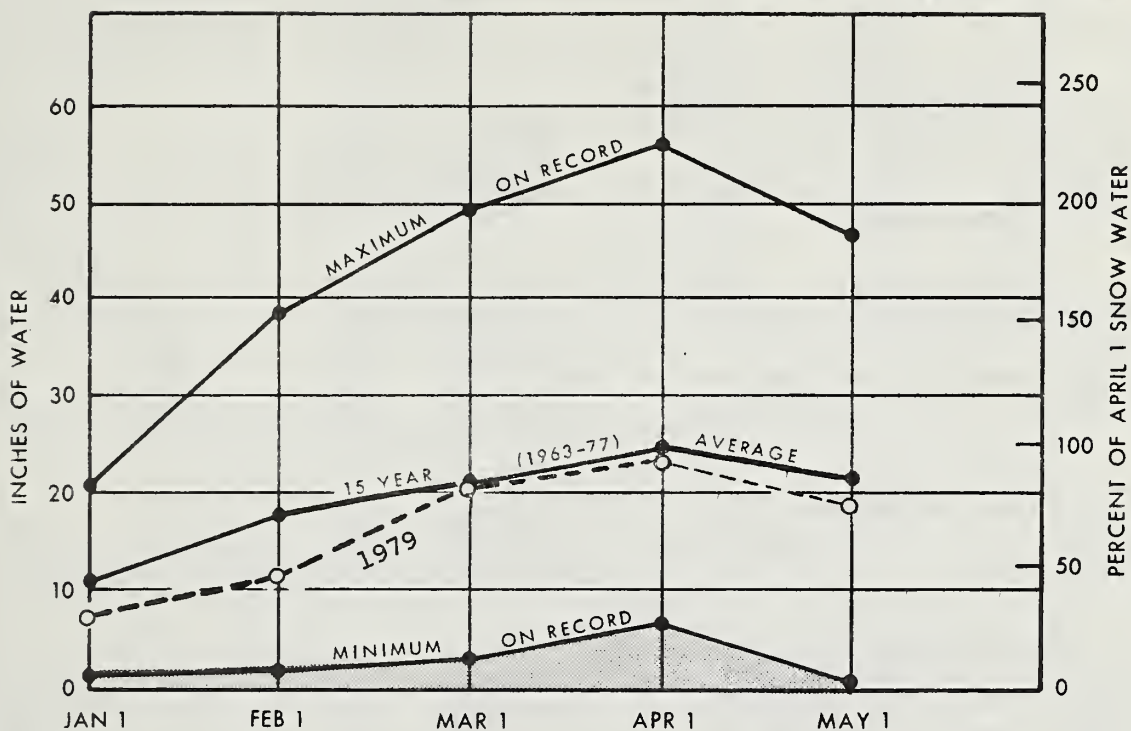
WINTER SNOWPACK

TAHOE, TRUCKEE, CARSON & WALKER BASINS

CALIFORNIA - NEVADA

1979

Data based on 9 long term Snow Courses



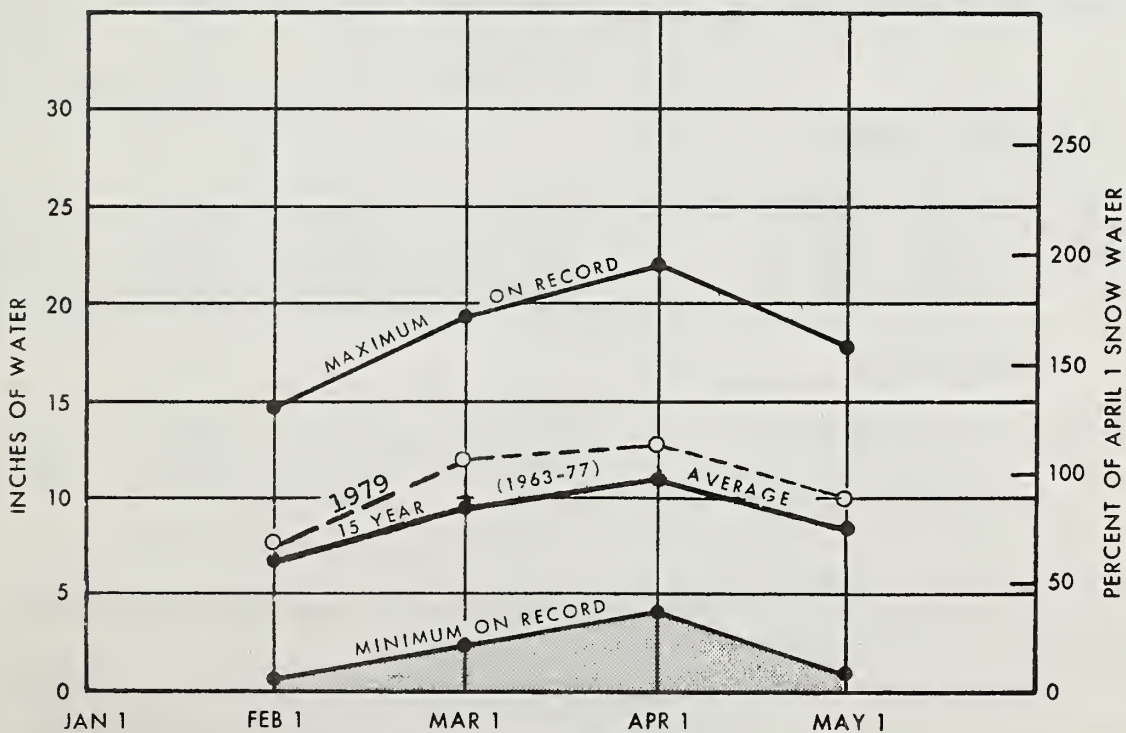
WINTER SNOWPACK

UPPER HUMBOLDT & SNAKE BASINS

NEVADA

1979

Data based on 13 selected Snow Courses



STREAMFLOW FORECASTS (Thousand Acre Feet) as of: May 1, 1979

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All averages are for 1963-77 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
<u>TRUCKEE RIVER</u>				
Little Truckee River above Boca, CA	May-July	45	67	67
Truckee River at Farad, CA ^{1,2}	May-July	150	71	209
Lake Tahoe Rise in Feet (from May 1, assuming gates closed) ¹	May-High	.85	70	1.21
<u>CARSON RIVER</u>				
East Carson near Gardnerville, NV	May-July	155	98	158
West Carson at Woodfords, CA	May-July	42	98	43
Carson River near Carson City, NV	May-July	135	88	153
Carson River at Fort Churchill, NV	May-July	120	85	142
<u>WALKER RIVER</u>				
East Walker near Bridgeport, CA ³	May-Aug.	58	97	60
West Walker below Little Walker near Coleville, CA	May-July	135	102	132
<u>HUMBOLDT RIVER</u>				
Lamoille Creek near Lamoille, NV	May-July	25	93	27
South Fork Humboldt near Elko, NV	May-July	63	98	64
Marys River above Hot Springs, NV	May-July	20	71	28
North Fork Humboldt at Devils Gate, NV	May-July	19	83	23
Humboldt River at Palisade, NV	May-July	134	77	173
Humboldt River at Comus, NV	May-July	90	65	138
Martin Creek near Paradise, NV	May-July	10	97	11
<u>SNAKE RIVER</u>				
Owyhee River near Owyhee, NV ⁴	May-July	60	118	51
Owyhee River near Gold Creek, NV ⁴	May-July	15	125	12
Salmon Falls Creek near San Jacinto, NV	May-July	31	54	58
	May-Sept.	33	53	63
<u>SURPRISE VALLEY</u>				
Bidwell Creek near Ft. Bidwell, CA	Apr-July	11	92	12
Mill Creek near Cedarville, CA	Apr-July	4.8	117	4.1
Deep Creek near Cedarville, CA	Apr-July	3.4	94	3.6
Eagle Creek near Eagleville, CA	Apr-July	4.9	114	4.3
<u>COLORADO RIVER</u>				
Virgin River at Hurricane, UT	May-June	91	294	31
Virgin River at Littlefield, AZ	May-June	87	295	29

1. Forecast issued by Truckee Basin Water Committee

2. Observed flow plus change in storage in Boca, Stampede, Prosser Reservoir, Donner, Independence and Martis Creek Lakes and minus the flow at Truckee River at Tahoe City, CA.

3. Observed flow plus change in storage in Bridgeport Reservoir

4. Observed flow plus change in storage in Wildhorse Reservoir

RESERVOIR STORAGE (Thousand Acre Feet) AS OF May 1, 1979

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
Owyhee	Wild Horse	72	44	43	43
Lower Humboldt	Rye Patch	172	110	68	135
Colorado	Mohave	1,810	1,531	1,611	1,700
Colorado	Mead	26,159	22,918	20,966	17,200
Tahoe	Tahoe	732	164	145	513
Truckee	Boca	41	35	34	30
Truckee	Stampede**	30	13	10	12*
Truckee	Prosser***	220	65	51	129*
Carson	Lahontan	291	273	212	237
West Walker	Topaz	59	50	10	42
East Walker	Bridgeport	42	36	21	32

* Less than 15 years.
 ** Storage began August 1, 1967.
 *** Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average †
October 1	472	97	786
January 1	422	124	844
February 1	495	221	920
March 1	541	302	968
April 1	646	448	1010
May 1	712	533	1032

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.
 TOTAL USABLE CAPACITY 1,409

PEAK FLOWS (MAXIMUM MEAN DAILY FLOW - 1963-1977 period, on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
East Fork Carson River near Gardnerville, NV	1727 - 1925	1865
Carson River near Carson City, NV	1850 - 2050	2098
Carson River near Fort Churchill, NV	1600 - 1800	1914
W. Walker R. below L. Walker nr Coleville, CA	1500 - 1700	1589

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson River near Gardnerville, NV	200	7/22	7/24

† 1963-1977 period.

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †

LAKE TAHOE

Echo Peak (CA)	7800	4/25/79	57	28.4	54.7	-
Echo Summit (CA)	7450	4/30/79	46	21.0	37.6	26.2
Freel Bench (CA)	7300	4/25/79	7	2.8	5.7	5.8*
Hagans Meadow (CA)	8000	4/25/79	19	8.4	20.6	12.3*
Heavenly Valley (CA)	8800	4/25/79	57	25.0	38.5	24.2*
Marlette Lake	8000	4/25/79	51	17.4	29.0	20.6*
Rubicon #2 (CA)	7500	4/25/79	62	27.9	-	-
Upper Truckee (CA)	6400	4/25/79	0	0.0	0.1	2.2*
Ward Creek #2 (CA)	7000	4/27/79	71	33.6	52.8	38.8
Ward Creek #3 (CA)	6750	4/27/79	65	31.6	48.0	37.9*

TRUCKEE RIVER

Donner Summit (CA)	6900	4/23/79	77	28.7	56.1	33.6*
Fordyce Lake (CA)	6500	4/24/79	89	41.1	62.3	38.1*
Furnace Flat (CA)	6700	4/24/79	100	44.0	70.1	45.5
Independence Camp (CA)	7000	4/27/79	27	11.4	24.1	17.4*
Independence Creek (CA)	6500	4/27/79	6	2.2	6.3	6.6*
Independence Lake (CA)	8450	4/27/79	81	34.3	61.9	46.9*
Mount Rose	9000	4/27/79	73	33.4	43.7	0
Mount Rose Ski Area	8850	4/25/79	91	37.8	59.0	38.8*
Squaw Valley #2 (CA)	7500	4/27/79	101	46.7	80.3	51.7*

CARSON RIVER

Blue Lakes (CA)	8000	4/24/79	84	34.2	48.9	33.7
Carson Pass, Upper (CA)	8600	4/27/79	66	30.1	47.0	33.1
Ebbetts Pass #2 (CA)	8700	4/25/79	81	39.2	58.6	-
Poison Flat (CA)	7900	4/25/79	26	12.5	21.1	-
Wet Meadows #2 (CA)	8050	4/25/79	89	42.7	59.2	-

WALKER RIVER

Leavitt Meadows (CA)	7200	4/25/79	16	6.6	-	-
Lobdell Lake (CA)	9200	4/25/79	42	16.6	26.0	-
Sawmill Ridge (CA)	8750	4/25/79	40	15.7	32.5	-
Sonora Pass (CA)	8800	4/25/79	53	24.8	39.5	20.3
Virginia Lakes (CA)	9500	4/25/79	36	15.3	29.5	15.1*
Virginia Lakes Ridge (CA)	9200	4/25/79	48	19.0	31.9	16.0*

OWYHEE RIVER

Big Bend	6700	4/26/79	14	5.0	2.8	2.4
Fawn Creek (SNOTEL)	7000	4/26/79	52	21.0	-	-
Gold Creek	6600	4/26/79	0	0.0	0.0	1.0
Jack Creek, Lower	6800	4/26/79	0	0.0	0.0	0.8
Jack Creek, Upper	7250	4/25/79	22	9.0	4.2	4.7
Jack Creek, Upper (SNOTEL)	7250	4/26/79	52	21.0	17.5	-
Jacks Peak	8420	4/26/79	78	27.4	30.2	26.8
Taylor Canyon	6200	4/26/79	0	0.0	0.0	0.5
Laurel Draw	6700	4/26/79	16	5.6	0.0	-

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †

SNAKE RIVER

Bear Creek	7800	4/26/79	58	23.1	27.7	20.8
Goat Creek	8800	4/27/79	54	21.4	-	20.9
Hummingbird Springs	8945	4/27/79	60	23.0	-	27.7
Pole Creek Ranger Station	8330	4/27/79	54	21.4	-	23.6
76 Creek	7100	4/26/79	26	11.3	9.1	3.2*

UPPER HUMBOLDT RIVER

Corral Canyon	8500	4/26/79	52	19.9	16.6	-
Dorsey Basin	8100	4/26/79	40	17.8	-	-
Fry Canyon	6700	4/26/79	0	0.0	0.0	1.5
Green Mountain	8200	4/26/79	26	11.5	13.1	-
Lamoille #1	7100	4/26/79	15	5.7	2.6	4.4*
Lamoille #3	7700	4/26/79	26	10.2	10.5	8.3*
Lamoille #5	8700	4/26/79	70	33.4	37.2	30.0*
Rodeo Flat	6800	4/26/79	9	3.3	0.0	1.5
Tremewan Ranch	5700	4/26/79	0	0.0	0.0	-

EASTERN NEVADA

Berry Creek	9100	4/26/79	48	17.0	23.5	16.3*
Bird Creek	7500	4/26/79	0	0.0	-	-
Ward Mountain	8900	4/26/79	32	10.0	29.0	-

NORTHERN GREAT BASIN

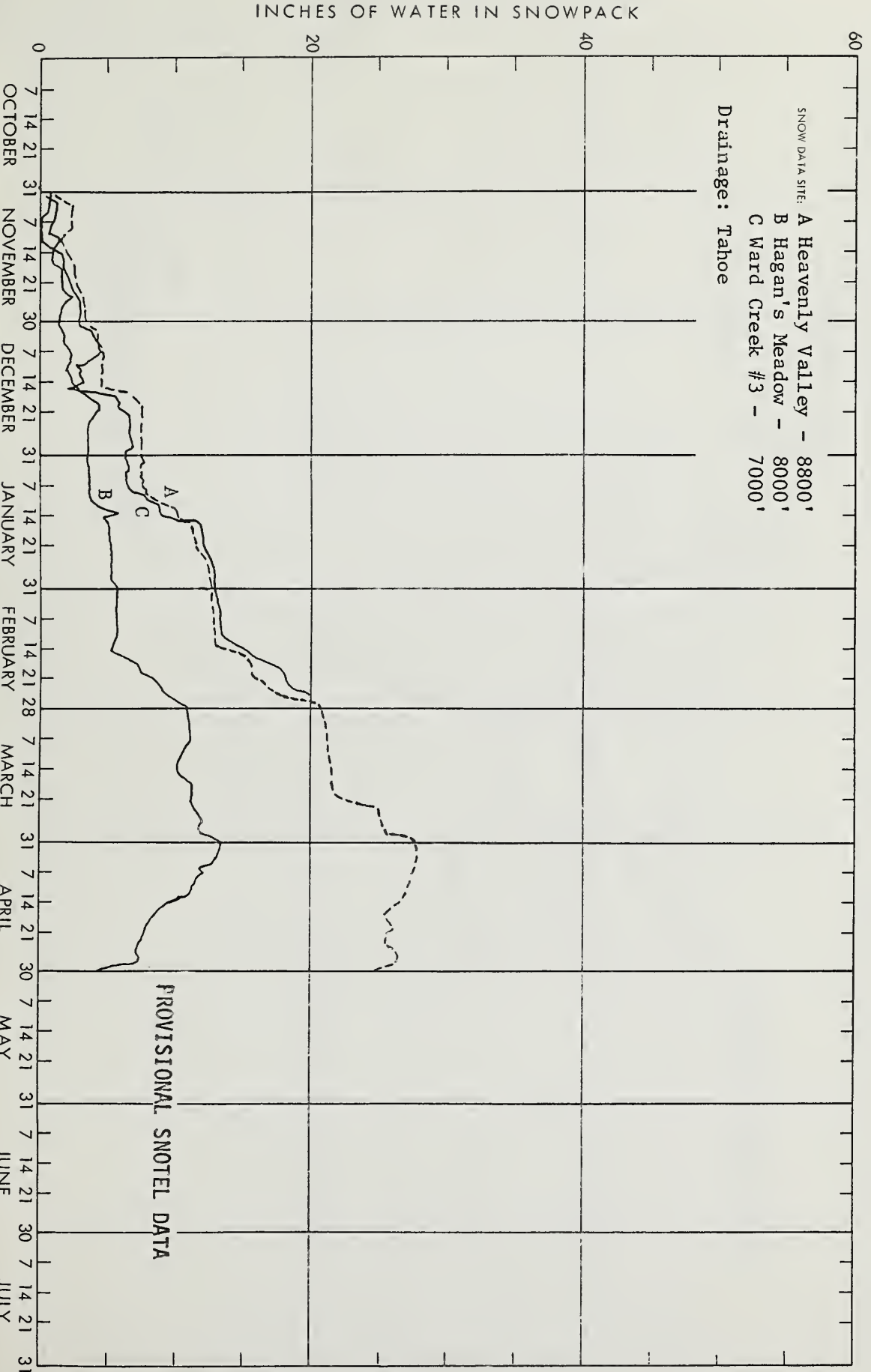
Cedar Pass (CA)	7100	4/27/79	43	19.6	16.7	15.2*
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DRI MEASUREMENTS IN TAHOE-TRUCKEE BASIN

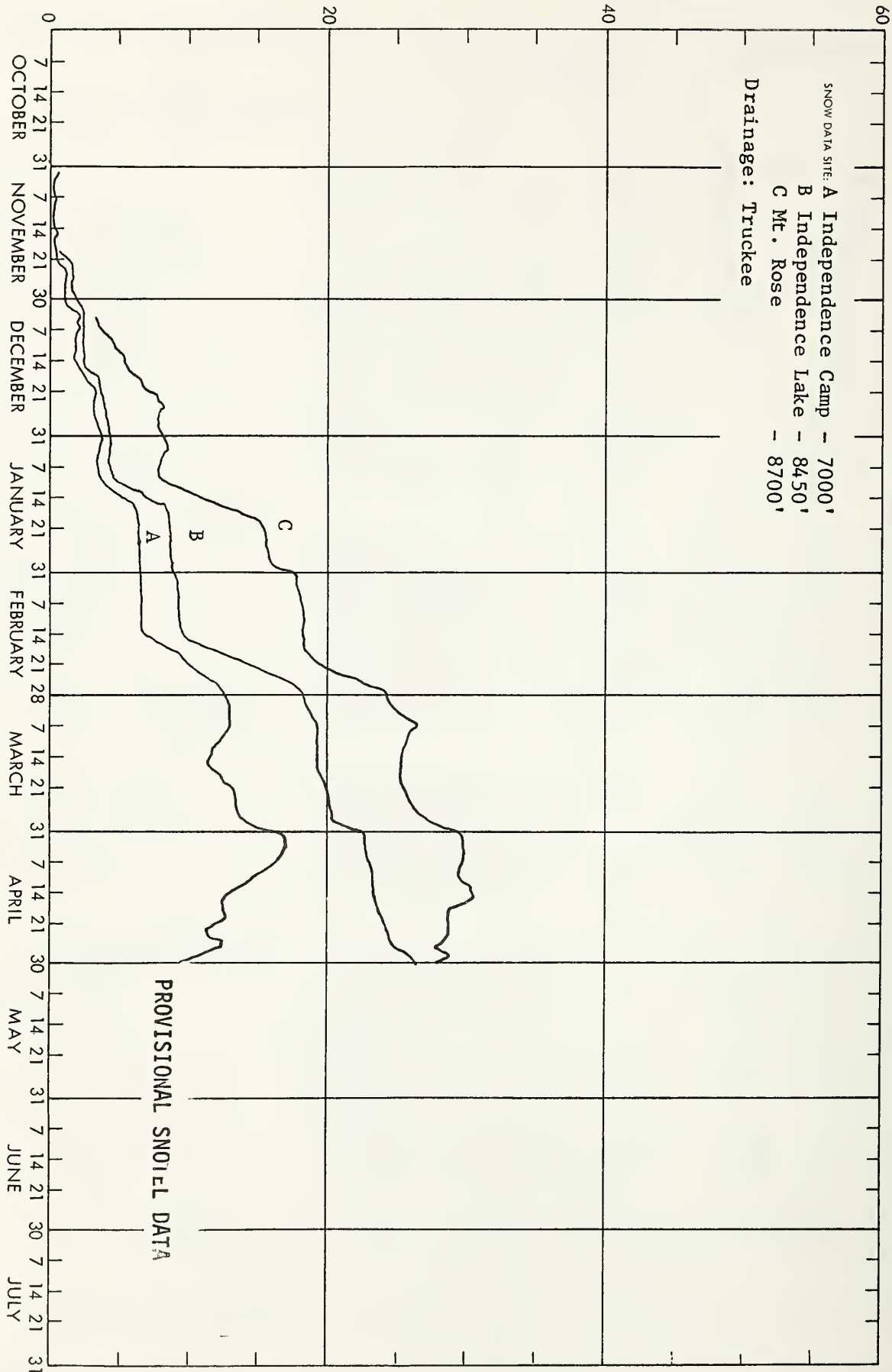
Alder Creek	6960	4/26/79	58	29.0	-	-
Apollo Way	7300	4/27/79	0	0.0	0	-
Bennett Flat	6200	4/26/79	0	0.0	7.5	-
Davis Creek	5160	4/27/79	0	0.0	-	-
Evergreen Hills	5700	4/27/79	0	0.0	-	-
Galena Creek	7440	4/27/79	35	14.3	20.9	-
Henness Pass Junction	6410	4/26/79	17	7.4	16.0	-
Hobart Mills	5850	4/26/79	0	0.0	0.0	-
Incline Lake	8000	4/27/79	38	15.7	26.0	-
Jones Creek	6000	4/27/79	0	0.0	-	-
Mt. Rose Resort	8280	4/27/79	50	24.1	39.2	-
North Star Fire Department	6320	4/26/79	0	0.0	-	-
RNR Test Site	6400	4/27/79	0	0.0	-	-
Sky Tavern	7620	4/27/79	9	4.4	13.0	-
Spooner Summit	7620	4/27/79	0	0.0	7.5	-
Squaw Valley Fire Department	6240	4/26/79	0	0.0	-	-
Sundance Lodge	7060	4/27/79	0	0.0	-	-
Tahoe Meadows	8540	4/27/79	86	42.0	53.5	-
Tamarack Lake	8820	4/27/79	75	33.7	43.6	-
Third and Incline Creeks	6235	4/27/79	0	0.0	-	-
Thunder Cliff	6200	4/26/79	0	0.0	-	-
Truckee Airport	5900	4/26/79	0	0.0	-	-
Whites Creek	5670	4/27/79	0	0.0	-	-

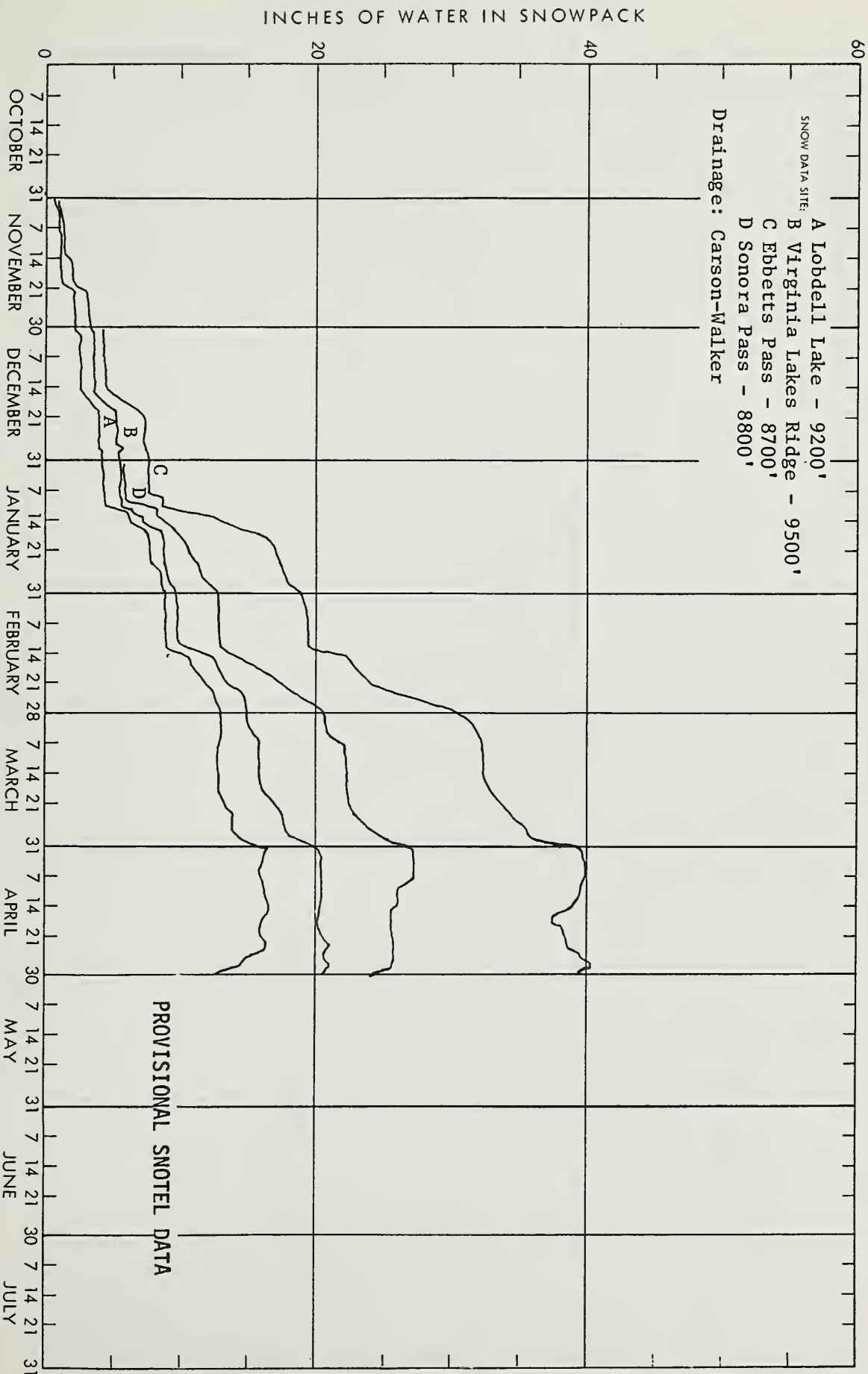
PRECIPITATION (Inches) May 1, 1979

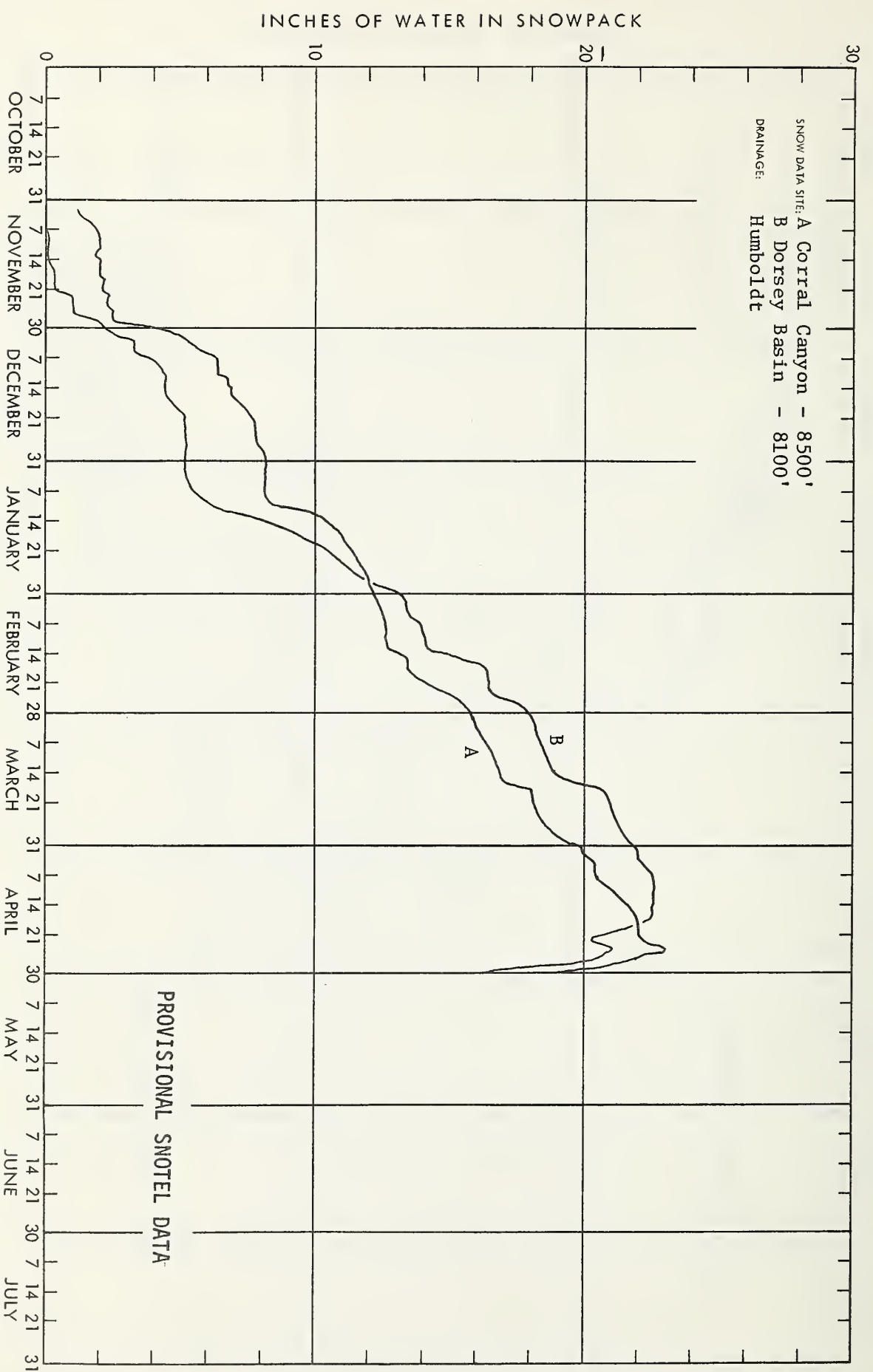
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	1977
<u>LAKE TAHOE-TRUCKEE</u>							
Echo Peak	7800	4/25/79	5.2	6.0	34.7	47.8	15.9
Fallen Leak	6300	4/30/79	2.6*	3.1	20.5*	32.6	11.4
Hagans Meadow	8000	4/25/79	4.5	4.2	28.3	36.1	11.5
Heavenly Valley	8800	4/25/79	4.5	4.4	26.4	36.1	-
Independence Camp	7000	4/27/79	3.1	3.0	27.4	36.9	11.8
Independence Creek	6500	4/27/79	2.6	4.4	21.7	35.6	11.3
Independence Lake	8450	4/27/79	4.6	-	26.8	45.7	16.8
Marlette Lake	8000	4/26/79	5.5	4.5	28.6	37.1	11.6
Mount Rose	9000	4/27/79	4.5	-	25.0	-	-
Mount Rose Ski Area	8850	4/25/79	4.0	-	44.3	-	-
Rubicon #2	7500	4/25/79	5.3	-	33.1	-	-
Tahoe City Cross	6750	-	-	1.9	-	29.6	-
Truckee #2	6400	-	-	2.5	-	21.3	-
Ward Creek #3	6750	4/27/79	7.5	8.7	52.6	63.0	23.0
<u>CARSON-WALKER RIVER</u>							
Blue Lakes	8000	-	-	-	-	46.8	-
Ebbetts Pass	8750	4/25/79	3.4	6.4	39.2	46.6	14.9
Poison Flat	7900	4/25/79	1.8	3.6	29.9	31.0	7.3
Wet Meadows	8050	4/25/79	3.9	4.8	36.5	34.9	11.8
Leavitt Meadows	7200	4/25/79	0.8	-	27.6	-	-
Lobdell Lake	9200	4/25/79	1.6	3.1	19.9	29.6	6.0
Sonora Pass Bridge	8800	4/25/79	1.7	4.8	30.7	37.7	14.1
Virginia Lakes Ridge	9200	4/25/79	1.3	3.7	24.8	35.0	18.7
<u>HUMBOLDT RIVER</u>							
Corral Canyon	8500	4/26/79	4.0	5.9	21.3	25.3	-
Dorsey Basin	8100	4/26/79	4.3	-	25.0	-	-
Green Mountain	8000	4/26/79	3.1	2.6	22.5	23.4	-
Lamoille #3	7700	4/26/79	3.7	4.3	20.8	25.4	15.3
Rodeo Flat	6800	4/26/79	2.5	2.3	12.7	12.4	8.4
<u>SNAKE-OWYHEE RIVER</u>							
Bear Creek	7800	4/26/79	3.7	-	23.0	20.6	15.0
Big Bend	6700	4/26/79	1.4	2.0	12.4	13.4	11.8
Fawn Creek	7000	4/26/79	3.2	-	25.0	-	-
Goat Creek	8800						
Jacks Peak	8420	4/26/79	4.8	5.1	27.0	28.1	24.6
Laurel Draw	6700	4/26/79	2.8	3.1	18.6	9.5	-
Pole Creek RS	8330						
76 Creek	7100	4/26/79	4.7	1.7	19.8	14.0	5.9
Taylor Canyon	6200	4/26/79	1.0	1.9	8.7	9.9	8.5
Upper Jack Creek	7250	4/26/79	4.0	3.7	20.9	20.7	18.6
<u>EASTERN NEVADA</u>							
Berry Creek	9100	4/26/79	1.0	5.9	17.9	22.6	15.1
<u>NORTHERN GREAT BASIN</u>							
Cedar Pass	7100	4/27/79	7.8	9.5	26.0	29.1	-



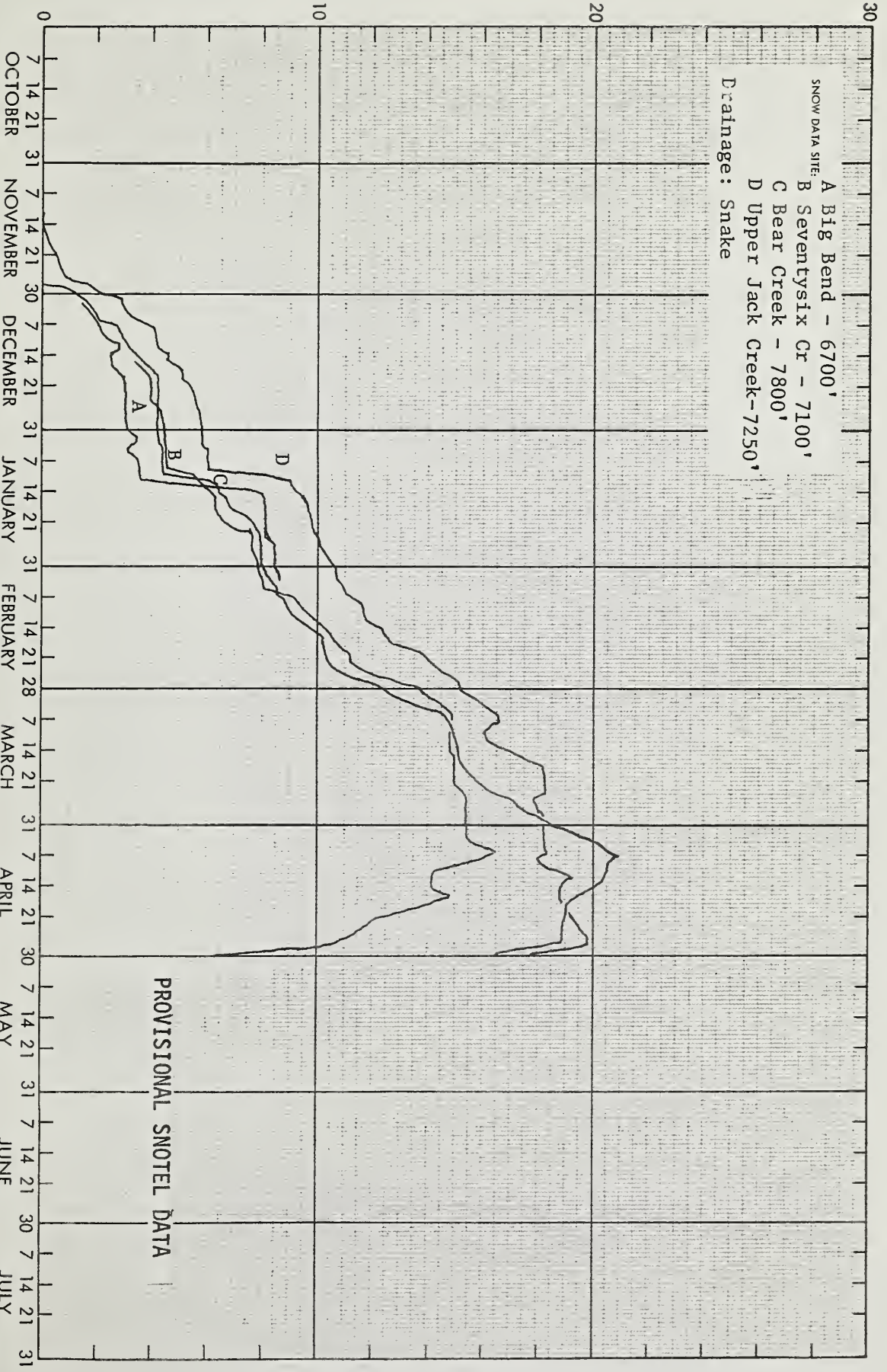
INCHES OF WATER IN SNOWPACK







INCHES OF WATER IN SNOWPACK



Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

- Agricultural Research Service
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Navy
- Soil Conservation Service
- U. S. District Court - Federal Water Master
- NOAA, National Weather Service

STATE

- California Cooperative Snow Surveys
- California Department of Parks and Recreation
- California Department of Water Resources
- Colorado River Commission of Nevada
- Idaho Cooperative Snow Surveys
- Nevada Association of Conservation Districts
- Nevada Department of Conservation & Natural Resources
 - Division of Water Resources
 - Nevada State Forester
- Oregon Cooperative Snow Surveys
- Utah Cooperative Snow Surveys
- White Mountain Research Station, Univ. of California

PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas and Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Truckee-Carson Irrigation District
- Walker River Irrigation District
- Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE

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CLINTON COUNTY RECORDS

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*